

Application for Certification as an Eligible Energy Resource Under the Delaware Renewable Energy Portfolio Standard

1. Name of Facility Marcy, James Residence - J Marcy	
2. Facility Address 306 Grist Mill Dr	
Milton, DE 19968	
Is the facility located within the PJM control are If No, does the Facility have import capabilities?	□ No □ No
3. Name of Owner James Marcy	
Mailing Address 306 Grist Mill Dr Milton, DE 19968	
(202) ((4.100)	
Email_jandkmarcy@gmail.com	
. Name of Operator same as owner	
Mailing Address	
PhoneFax_	
Fmail	

Allyson Browne, SRECTrade, Inc.	
Mailing Address	
201 California Street, Suite 630	_
San Francisco, CA 94111	_
Phone (415) 763 - 7732 ext. 1 Fax (415) 763 - 7732	
Email applications@srectrade.com	-
6. Name of REC/SREC Owner same as owner	
Mailing Address	_
Phone Fax	-
Email	_
7. List all PJM-EIS GATS State Certification Numbers assigned to this facility:	
	- -
8. Operational Characteristics:	
Fuel Types Used (check all that apply):	
☐ Gas combustion from the anaerobic digestion of organic material	
☐ Geothermal	
☐ Ocean, wave or tidal actions, currents, or thermal differences	
☐ Qualified Biomass ⁱ	
☐ Qualified Fuel Cells ⁱⁱ	
☐ Qualified Hydroelectric ⁱⁱⁱ	
☐ Qualified Methane Gas captured from a landfill gas recovery system ^{iv}	

	☑ Solar
	□ Wind
	If co-firing, provide the formula on file with PJM Environmental Information Services, Inc. (PJM-EIS)n/a
	Rated Capacity (in megawatts) 0.013965 MW
	If multiple fuel types are utilized, attach the formula for computing the proportion of output per fuel type by megawatts per hour generated.
	Facility Final Approved Interconnection Date 02/17/16
	If co-firing with fossil fuels, co-fire start date n/a
	If co-firing with fossil fuels, attach the allocation formula on file with PJM.
9.	Is the Applicant's facility customer-sited generation ^v ? ☑ Yes □ No
	Is the Applicant's facility a community owned generating facility ^{vi} ? ☐ Yes ☑ No
	Can the output from the customer-sited generation be appropriately metered? ☑ Yes □ No

l, <u>Allyson Browne</u>	(print name) h	ereby certify under	penalty of perjury that
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- 1. I have made reasonable inquiry, and the information contained in this Application is true and correct to the best of my knowledge, information and belief.
- 2. I am authorized to submit and execute this Application and to bind myself and/or my company to the representations contained herein.
- I/my company agree(s) to comply with and be subject to the jurisdiction of the Public Service Commission of the State of Delaware for any matters arising out of my submission of this Application or the granting of the Application.
- 4. In the event that any of the information contained in this Application changes pending the consideration of this Application or after the Application is granted, I/my company will amend the Application to provide the Commission with such changed information.
- 5. I acknowledge that if any of the representations made in this Application or in any amendment thereto are found to be untrue when made, I/the company may be subject to sanctions, including but not limited to monetary fines and/or the revocation of any Certificate granted as a result of the representations made in this Application.

Signatur	e: Ally	son	Browne	
_				
Date: 0	3/23/2016			



A IHI Company

PART 1

DELAWARE LEVEL 1 INTERCONNECTION APPLICATION & AGREEMENT

With Terms and Conditions for Interconnection (Lab Certified Inverter-Based Small Generator Facilities Less than or Equal to 10 kW) (Application & Conditional Agreement – to be completed prior to installation)

INTERCONNECTION CUSTOMER CONTACT INFORMATION

Customer Name: James Marcy		
Mailing Address: 306 Grist Mill Drive		
City: Milton	State: DE	Zip Code: 19968
Contact Person/Authorized Agent (I	f other than above):	
Mailing Address (If other than above): _		
Telephone (Daytime): 302-664-1806	(Evening):	
Fax Number: E-Ma		
Alternate Project Contact Informa	ation: (if different from Cust	omer-Generator above)
Alternate Name:		
Mailing Address:		
City:		Zip Code:
Telephone (Daytime):	(Evening):	
Fax Number: E-Ma	nil Address:	
If an email is provided for your alternate cont	act, that contact will receive a	Il email communications.
FACILITY INFORMATION		
Facility Address: 306 Grist Mill Drive		
City: Milton	State: DE	Zip Code: 19968
5502 2832 236	Motor	#- 1ND360344249
DPL Account #: 5502 2832 236		
Current Annual Energy Consumption		ACMOTRICATION [
Check if this Facility (building) is, or		CONSTRUCTION:
Estimated Commissioning Date: 12	/30/15	
Energy Source: Solar PV	Prin	ne Mover: Photovoltaics

Type of Application: Initial [■ Addition/Upgrade 🔲 ¹		
Initial Rating:	DC Generator Total ² Nameplate Rating: 13.965 (kW), AC Inverter Total ³ Rating 10 (kW), AC System Design Total Capacity ⁴ : 10 (kW) 10000 (kVA)		
Added Rating (if upgrade):	DC Generator Total Nameplate Rating: (kW), AC Inverter Total Rating (kW), AC System Design Total Capacity: (kW) (kVA)		
Total Rating (if upgrade):	DC Generator Total Nameplate Rating: (kW), AC Inverter Total Rating (kW), AC System Design Total Capacity: (kW) (kVA)		
Generator (or PV Panel) Ma	anufacturer, Model #5: Solworld 285w MONO		
	d Manufacturer's Specification Sheet may also be submitted		
Number of Generators (or F	PV Panels): 49		
, .	ed Single Axis Double Axis		
Array Azimuth if PV: 234 14	Array Tilt if PV: 25 35		
Shading Angles if PV at E,	120°,150°,S,210°,240°,W:° (Separate with comas)		
Inverter Manufacturer ⁶ : Fronius Model Number(s) of Inverter ⁷ : PRIMO 10.0			
Number of Inverters ⁸ : 1	Inverter Type: Forced Commutated Line Commutated		
Ampere Rating: 41.7 Amp	os _{Ac,} Number of Phases: ■ 1 3		
Nominal Voltage Rating: 240 V _{AC} , Nominal DC Voltage: 344.3 V _{DC} ,			
Power Factor: <u>85-100</u> %,	Frequency: 60 Hz, Efficiency:96.9 (%)		
DPL Taggable, Lockable, A	ccessible Disconnect ⁹ : Yes No,		
If Yes, Location:			
One-line Diagram Attached	(Required): Yes No,		
Site Plan Attached (Required): ■ Yes			
Do you plan to export power?¹0 ■ Yes □ No, If Yes, Estimated Maximum: 8 kW _{AC}			
Estimated Gross Annual Energy Production: 16441 kWh			
Is the inverter IEEE/UL1741 lab certified? Yes No (If yes, attach manufacturer's cut sheet showing listing and label information from the appropriate listing authority, e.g. UL 1741 listing. If no, facility is not eligible for Level 1 Application.)			
² Sum of all generators or PV Pane ³ Sum of all inverters ⁴ This will be your system desig ⁵ If more than one type, please ⁶ If more than one manufacture ⁷ If more than one model numb ⁸ Attach additional sheets as neces ⁹ This is strongly recommended by **Butter of the strongly recommended by	In capacity based upon your unique system variables. list all manufactures and model numbers. , please list all. er, please list all. ssary in the event of multiple inverters of various types/sizes the utility. Best practice is to have an externally accessible, lockable, disconnect with		
(preferably red) and on the meter h	nousing Caution, Solar Electric System" (preferably yellow). If the disconnect is not in the		

immediate vicinity of the meter, please include the disconnect location on the meter signage. This enables the utility and first responders to more quickly deal with an emergency situation.

10 Yes, if your expected maximum output of the inverter (kW AC) is greater than the lowest load you anticipate at your facility during maximum PV output (kW). The difference would be the amount you may export.

		/
EQUIPMENT INSTALLATION CONTRAC	TOR Owner	Customer) Installed: Yes No
Contractor Name: Alutech United Inc		
Mailing Address: 117 Dixon St		
City: Selbyville	State: DE	Zip Code: 19975
Telephone (Daytime): 800-233-1144 Fax Number: 302-436-5100 E-Mail Address	(Evening): 302-	341-9059
Fax Number: 302-436-5100 E-Mail Addre	ess (Required): she	ly@greenstreetsolar.co~
ELECTRICAL CONTRACTOR		
Electrical Contractor Name: Alutech United Inc.		
Mailing Address: 117 Dixon st		
City: Selbyville Telephone (Daytime): 800-233-1144 Fax Number: 302-436-5100 License number: T1-0005686	State: DE	Zip Code: 19975
Telephone (Daytime): 800-233-1144	(Evening): 302-1	141-9059
Fax Number: 302-436-5100	E-Mail Address	russeil@alutech.com
License number: T1-0005686		Active License? Yes No
Is small generator facility eligible for Net Mo	etering? Yes	No □
	.	-
INSURANCE DISCLOSURE		
The attached terms and conditions contain indemnification, and should be carefully con The interconnection customer is not require coverage as a precondition for interconnect customer is advised to consider obtaining a interconnection customer's potential liability	nsidered by the ed to obtain gene tion approval; ho appropriate insur	interconnection customer. eral liability insurance owever, the interconnection rance coverage to cover the
CUSTOMER SIGNATURE		
I hereby certify that: 1) I have read and understand the terms and conditions which are attached hereto by reference and are a part of this Agreement; 2) I hereby agree to comply with the attached terms and conditions; and 3) to the best of my knowledge, all of the information provided in this application request form is complete and true. I consent to permit the PSC and interconnecting utility to exchange information regarding the generating system to which this application applies.		
Interconnection Customer Signature	eMance	Date: 11/2/15
•		- Sate:
Printed Name: James Marcy		_ Title: Homeowner
Page 4		July 2015
<u> </u>		

Conditional Agreement to Interconnect Small Generator Facility (for EDC use only)

Receipt of the application fee is acknowledged and, by its signature below, the EDC has determined the interconnection request is complete. Interconnection of the small generator facility is conditionally approved contingent upon the attached terms and conditions of this Agreement the return of the attached Certificate of Completion duly executed, verification of electrical inspection and successful witness test or EDC waiver thereof.

EDC Signature:	Date:
_	
Printed Name: _	Title:

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PART 2

DELAWARE INTERCONNECTION APPLICATION & AGREEMENT

With Terms and Conditions for Interconnection (Lab Certified Inverter-Based Small Generator Facilities Less than or Equal to 10 kW) (Final Agreement - must be completed after installation and prior to interconnection)

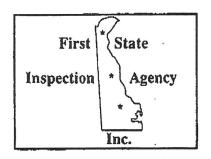
Certificate of Completion¹¹

INTERCONNECTION CUSTOMER CONTACT INFORMATION

Customer Name: James Mar	су	
Mailing Address: 306 Grist N		
City: Milton	State: DE	Zip Code: 19968
Telephone (Daytime): 302	-664-1806 (Evening):	
	E-Mail Add	
FACILITY INFORMATION Facility Address: 306 Grist M		
City: Milton		Zip Code: 19968
DPL Account #: 5502 2832 2		ter #: 1ND360344249
Energy Source: Solar PV		Prime Mover: Photovoltaics
,	mmutated Line Commuta	ted 🔳
Number of Inverters: 1		
Inverter Manufacturer: F	fronius Model Num	ber(s) of Inverter: PRIMO 10.0
Rating .	AC Inverter Total 13 Rating	neplate Rating: 13.965 (kW), 10 (kW), Capacity ¹⁴ : 10 (kW) 10000 (kVA)
Generator (or PV Panel) l	Manufacturer, Model # ¹⁵ : Sola	rWorld 285w MONO

¹¹ Information entered here on Certificate of Completion (Part 2) must match part 1
12 Sum of all generators or PV Panels
13 Sum of all inverters
14 This will be your system design capacity based upon your unique system variables.
15 If more than one type, please list all manufactures and model numbers.

	NSTALLATION CONTRAC	TOR Owner (Custo	omer) Installed: Yes No
Contractor Nan	ne: Alutech United Inc		
Mailing Addres	5: 117 Discon St		
City: Selbyville		State: DE	Zip Code: 19975
Telephone (Day	ytime): <u>800-233-1144</u>	(Evening): 302-841-90	59
Fax Number: 34	02-436-5100	E-Mail Address: shell	y@greenstreetsolar.com
	RIC INSPECTION AND INT	ERCONNECTION C	USTOMER SIGNATURE
having jurisdict attached. The i Generator Faci below.	ion. A signed copy of the enterconnection Customer a lity until receipt of the final and the signature of interconnection	lectric inspector's form clenowicalges that it shaceptance and appro	d by the local electric inspector indicating final approval is sail not operate the Small val by the EDC as provided Date / FEB/6
••••••	f signed electric inspection		
ACCEPTANCE	AND FINAL APPROVAL	FOR INTERCONNEC	TION (for EDC use only)
The interconne interconnected	ction agreement is approve operation upon the signing	d and the Small Gene and return of this Cer	rator Facility is approved for tificate of Completion by EDC:
Electric Distribu If not waived, d	ution Company waives With ate of successful Witness T	'est:	s (<u>DCD</u>) No () Passed: (Initial) ()
EDC Signature	ariana C. Selmoeter	016.02.17 12:05:08 05'00'	Date: 2/17/16
Printed Name:	Diana C. DeAngelis	Title	Regulatory Affairs Lead



02/01/2016 2:08PM FAX 3024224270

Alutech United, Inc. James Rodrigue PO Box 329 Selbyville, DE 19975 First State Inspection Agency, Inc. 1001 Mattlind Way Milford, DE 19963

> 1-800-468-7338 302-422-3859

CERTIFICATE

Final Inspection Date:

Application #:

Owner:

Occupancy:

Location:

01

Jan

Sola

nstivill Drive 306 Mil DESEX Co., DE

This certifies that the installation one secretary equipment listed on referenced application has been approved as insetting the requirements of the National Electric Code, utility interference and Agency rules. Any modification, addition or alteration of the electrical system, after the date of final inspection, will require a new apprication for the sections and certifications.

Chief Electrical Inspector

F.S. CERT

	solar or wind sited in Delaware, is a minimum of e energy equipment, inclusive of mounting
components, manufactured in D	Pelaware?
☐ Yes* ☐ No	
Alutech United	Phys Ca. X
Company Name of Installer	Signature of Company Representative
117 Dixon Street	Shelly Culver
Address Selbyville, DE 19975 Address	Print Name of Co. Representative
facility identified o If the supplier's invoice show the company's matching PO used/installed, must also be o If using a master invoice, a r	wing Delaware manufactured equipment with this ws only a coded Purchase Order (PO) number, a copy of that includes the address where the materials were
11. If the Applicant's installation is s	solar or wind sited in Delaware:
 a. Was the facility physically consists of at least 75% Del Yes* No 	constructed or installed with a workforce that aware residents?
 b. Does the installing companion who are Delaware resident 	y employ, in total, a minimum of 75% workers s?
☐ Yes* ☐ No	
Alutech United	A. LO
Company Name of Installer	Signature of Company Representative
117 Dixon Street	Shelly Culver
Address	Print Name of Co. Representative
Selbyville, DE 19975 Address	

^{*}If Yes, please attach supporting documentation (see pages 7-8 for details). Please note, in order to qualify for the Labor/Workforce Bonus, at least one of the options (a. or b.) must be met.

Documentation Required for Delaware Labor/Workforce Bonus

11. If the Applicant's installatio	n is solar or wind sited in Delawai	re:
a. Was the facility physica least 75% Delaware resi	lly constructed or installed with a idents?	workforce that consists of at
If you answered yes to "a." abo	ove, complete the following as evi	dence.
The following individuals (list e	very employee) were employed b	У
Alu	tech United DBA Green Street	Solar
if necessary)	Installation Company Name uction and installation) for this fac following information for all ind	
Name	Home Address (As per Tax Withholding)	Social Security Number (Last 4 digits only)
N/A		
	·	
Total Delaware Resident Employe	es: Total Nu	mber of Employees:
% of Delaware Residents (Delawa	are Residents Divided by Total Empl	ovees): $(2)\delta$

Documentation Required for Delaware Labor/Workforce Bonus

- 11. If the Applicant's installation is solar or wind sited in Delaware:
 - b. Does the installing company employ, in total, a minimum of 75% of workers who are Delaware residents?

Delaware residents?						
If you answered yes to "b." above, co	omplete the following as evidence	::				
Alutech United DBA Green Street Solar						
	Installation Company Name					
employed the following individuals (I project start date until project complinterconnection approval to operate	letion date). Projects are conside	red complete upon final				
Project Start Date: 12/28/2	<u>06</u> Project Complete Date:	2/17/14				
Employee Full Name	Home Address (As per Tax Withholding)	Social Security Number (Last 4 digits Only)				
N/A ·						
Total Delaware Resident Employees: 20 Total Number of Employees:						

	NAME	STREET ADDRESS	CITY	ST	ZIP	SS#
1_	Aaron Woods	22763 Coverdale Road	Seaford	DE	19973	25
2	Adam Ash	36096 Zion Church Road	Frankford	DE	19945	24
3	Alfred Bangert	17905 Careys Camp Road	Laurel	DE	19956	33
4	Antione Johnson	27542 Holly Hock Lane	Seaford	DE	19973	29
5	Cody Perry	112 East Tingle Drive	Selbyville	DE	19975	75
6	Daniel Fleetwood, III	36157 Millers Neck Road	Frankford	DE	19945	68
7	David Linehan	26393 Sea Mist Court	Millsboro	DE	19966	85
8	Derek Dykes	31866 Mountain Laurel Ridge	Laurel	DE	19956	74
9	Donnie Baker	35359 Danny Drive	Laurel	DE	19956	60
10	Dustin Brittingham	2 Leah Street	Georgetown	DE	19947	01
11	George Carey	36966 Deer Drive	Selbyville	DE	19975	69
12	George Pfaller	24501 Cedar Lane	Georgetown	DE	19947	48
13	James Webb	629 Gun and Rod Club Road	Harrington	DE	19952	63
14	Jason Killen	16502 Old Furnace Road	Georgetown	DE	19947	18
15	Jason Roth	36851 Old Mill Bridge Road	Selbyville	DE	19975	90
16	Jose Cordoba	Lazy Lagoon Lot 41	Frankford	DE	19945	42
17	Michael Haymond	12640 Beach Hwy.	Greenwood	DE	19950	01
18	Richard Jalot, 2nd	18546 Sand Hill Rd.	Georgetown	DE	19947	22
19	W. Jeffrey Timmons	11127 Signature Blvd.	Selbyville	DE	19975	52
20)	William Warden	26163 Kelly Circle	Seaford	DE	19973	89
21	Brian Reed, Jr.	233 Briarwood Circle	Denton	MD	21629	00
22	Erik Diaz-Padilla	105 Caroline St., Unit 6	Ocean City	MD	21842	15
23	John Basch	1504 Sharen Drive, Apt. F	Salisbury	MD	21801	96
24	Kyle Handy	106 Meadow Drive, Unit 208	Easton	MD	21601	00
25	Lisa Bloom	403 143 rd Street, Unit 5	Ocean City	MD	21842	74
26	Mark Caldwell	1004 Philadelphia Avenue, Unit 5	Ocean City	MD	21842	20
27	Richie Wright	5637 Caledonia Drive	Salisbury	MD	21801	40
28	Russell Pfaller	7167 Chatham Manor Way	Pittsville	MD	21850	98
29	Shelly Culver	1010 Marley Manor Drive, #101	Salisbury	MD	21804	59
30	Tyler Burr	403 143 rd Street, Unit 5	Ocean City	MD	21842	69